

AutoInspector Series - Ultra IV Series

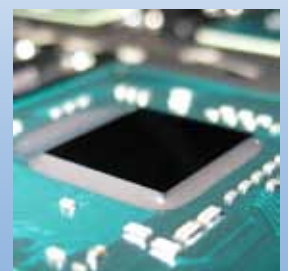
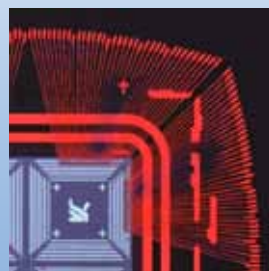
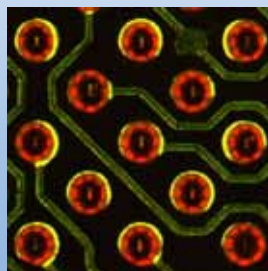
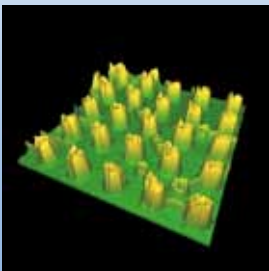
Automated Process Inspection AOI

The **Ultra IV Series** Tri-Color Technology system provides the ability to use multiple angles of light to determine different characteristics of each component and lead inspected all from a single image. The **Ultra IV** is configured as standard for board handling of 20 x 20 inches (508 x 508mm). The **Ultra IV XL** with board indexing, provides for board handling of 20 x 30 inches (508 x 762mm). MVP's Flying Stage combined with Tri-Color Technology allows faster inspection cycle times while increasing inspection capabilities. Additionally, with enhanced defect coverage, false rejects are minimized. The **Ultra IV** and **Ultra IV XL** complements MVP's wide range of award winning AOI products and allows for the introduction of flexible solutions with the capability to increase performance and speed metrics at the same time.

- Flexible, Reliable and Robust Measurements**
- Position Anywhere for Any Inspection Need**
- High Resolution 5 Megapixel Color Camera**
- Lowest Cost of Ownership**
- Optional 3D Paste Inspection**
- Easy-To-Use Award Winning iPro Software**
- Fastest Performance Based Programming**



Discuss your SMT and micro electronics inspection application with Machine Vision Products, Inc and discover your solution



the vision to improve your process



Ultra IV Series Technical Specifications

Inspection Speed

- Acquisition Speed of 75 Megapixels per Second with a Single 5MP Camera
- Up to 90 sq.cm per Second (14 sq.inches per Second) Inspection Dependant on Board Layout, Density and Field of View

System Hardware

- State-of-the-art Large Format Color Camera
- Proprietary "On-the-fly" Camera Acquisition
- Programmable Variable LED Strobe Lighting
- Proprietary Multi-color Illumination
- Field of View Resolution 7 - 17 Micron/Pixel
- 0201 and 01005 Capable
- Copy-exact, Inter-machine Capability
- High Precision X/Y Stage with 0.5 Micron Linear Scales, Closed-loop Linear Servo Motors for Fast Acceleration and Speed

System Software

- CAD-driven, Library-based Programming Software
- Proven High Performance, Adaptable Algorithms with Highest Detectability and Lowest PPM False Accept and False Reject Rates
- Full Network Integration (TCP/IP, NFS Protocol)
- Off-line or In-line Defect Review Capability
- Defect Image Archive Capability
- Real-time SPC Package
- Report Generation Utilities for Production Inspection Measurements
- Inspection Program Change Tracking
- 5th Generation Proven Inspection Software
- Multi-pass Technology, Adjustable Lighting Intensity
- MVP Dynamic Process Control Compatible

Material Handling

- SMEMA Interface
- Flexible PLC Control
- Auto Board Clamp for Precision Registration
- Single and Dual Lane
- Support for Thin and Standard PCB Processing

Physical Specification

- Ultra IV Inspection Envelope 508mm x 508mm (20" x 20")
- Ultra IV XL Inspection Envelope 508mm x 762mm (20" x 30")
- Footprint 990 W x 1100mm D
- Height 1580mm (62")
- Conveyor Lengths 1140mm or 1370mm
- Power 220-240VAC 50/60Hz, 10 Amperes
- Air 60 PSI, 1CFM
- Weight 680kgs (1500 lbs)

System Configurations

- MVP Ultra IV
- MVP Ultra IV XL

Options

- 3D Paste Volume Inspection
- CAD Translation Software
- Three Section Conveyor for Improved Cycle Time
- Off-line Programming Capability
- Top Side Reference Lifters
- AutoWidth
- Programmable Z-Axis Control Function
- MVP Dynamic Process Control
- Ceramic Process Material Handling

Worldwide Headquarters
Carlsbad, California USA
800.260.4MVP or 760.438.1138
sales@visionpro.com

European Headquarters
Fife, Scotland UK
+44 (0) 1383 629960
salesuk@visionpro.com

Asia-Pacific Headquarters
Shanghai, P.R.C.
+86 21 6115 2060
salesasia@visionpro.com

our
Vision
your Success